

**Site Description**

<b>Study Name</b>	CBWQ-Elk
<b>Site</b>	Liz-01
<b>Sampling Date</b>	Sep 19 2018
<b>Know Your Watershed Basin</b>	Central Kootenay
<b>Province / Territory</b>	British Columbia
<b>Terrestrial Ecological Classification</b>	Montane Cordillera EcoZone Northern Continental Divide EcoRegion
<b>Coordinates (decimal degrees)</b>	49.47104 N, 115.07670 W
<b>Altitude</b>	990
<b>Local Basin Name</b>	Lizard Creek
	Elk River
<b>Stream Order</b>	3



Across Reach

**Cabin Assessment Results**

<b>Reference Model Summary</b>					
<b>Model</b>	Columbia-Okanagan Preliminary March 2010				
<b>Analysis Date</b>	November 21, 2018				
<b>Taxonomic Level</b>	Family				
<b>Predictive Model Variables</b>	Depth-Avg Latitude Longitude Reg-Ice Reg-SlopeLT30%				
<b>Reference Groups</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Number of Reference Sites</b>	9	43	17	12	33
<b>Group Error Rate</b>	22.2%	24.5%	22.2%	25.0%	32.4%
<b>Overall Model Error Rate</b>	26.4%				
<b>Probability of Group Membership</b>	0.0%	0.7%	77.6%	19.9%	1.8%
<b>CABIN Assessment of Liz-01 on Sep 19, 2018</b>	Similar to Reference				

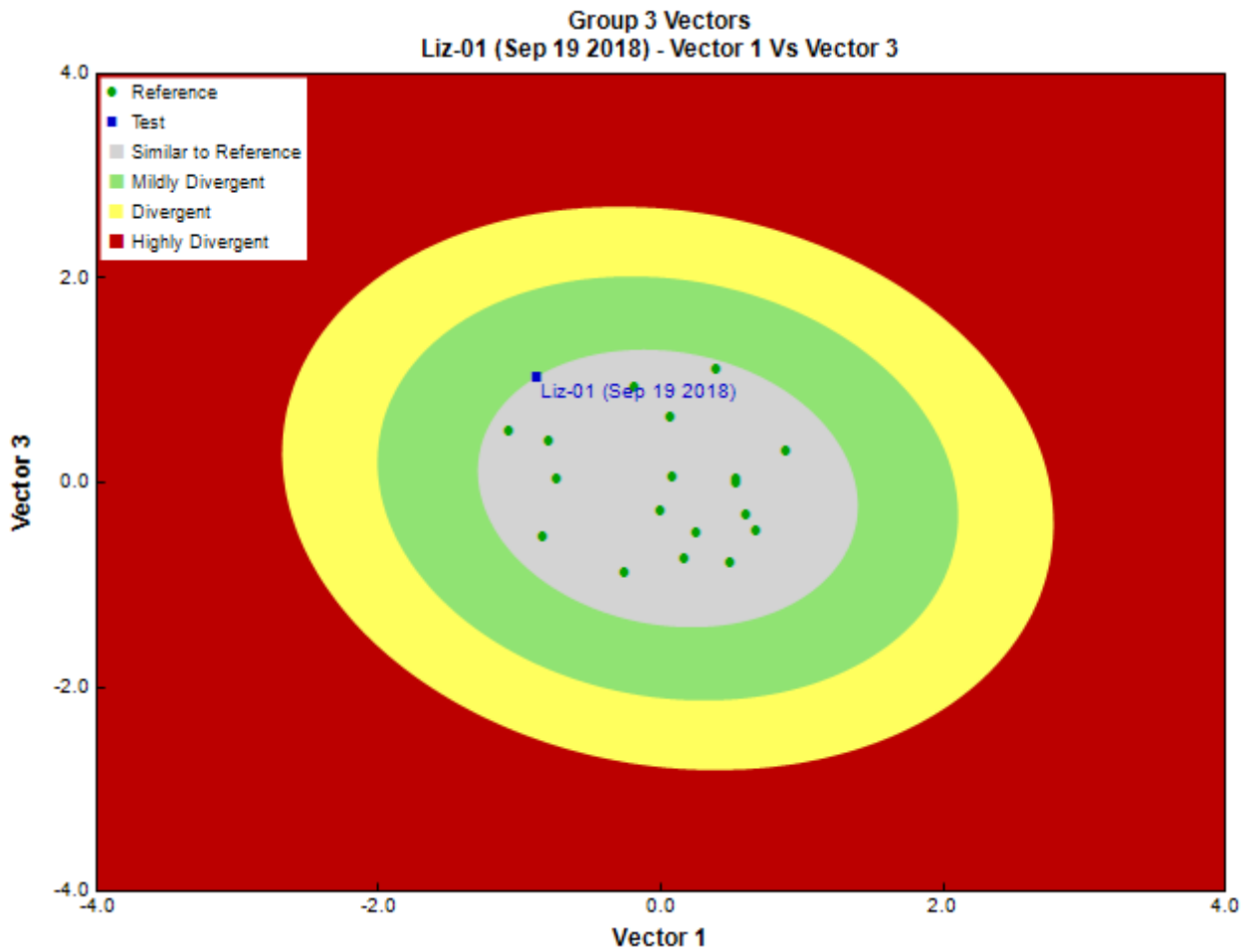


Figure 3. CABIN ordination assessment of the test site with the predicted group of reference sites. Each axis represents the relative abundance of the entire benthic invertebrate community with different organisms weighted differently on each axis.

**Sample Information**

<b>Sampling Device</b>	Kick Net
<b>Mesh Size</b>	400
<b>Sampling Time</b>	3
<b>Taxonomist</b>	Pina Viola, Consultant
<b>Date Taxonomy Completed</b>	November 16, 2018
	Marchant Box
<b>Sub-Sample Proportion</b>	6/100

**Community Structure**

Phylum	Class	Order	Family	Raw Count	Total Count	
Annelida	Clitellata	Tubificida	Naididae	7	116.7	
Arthropoda	Arachnida	Trombidiformes	Lebertiidae	29	483.3	
			Torrenticolidae	2	33.3	
	Insecta	Coleoptera	Elmidae	19	316.6	
			Diptera	Chironomidae	14	233.3
				Empididae	5	83.3
		Ephemeroptera	Psychodidae	22	366.7	
			Simuliidae	1	16.7	
			Tipulidae	22	366.7	
			Baetidae	176	2,933.3	
			Ephemerellidae	4	66.7	
		Plecoptera	Heptageniidae	Heptageniidae	11	183.4
				Capniidae	23	383.3
			Chloroperlidae	Chloroperlidae	3	50.0
Leuctridae	1			16.7		

**Community Structure**

Phylum	Class	Order	Family	Raw Count	Total Count
			Nemouridae	71	1,183.3
			Perlidae	4	66.7
			Perlodidae	2	33.3
			Taeniopterygidae	4	66.7
		Trichoptera		1	16.7
			Apataniidae	1	16.7
			Glossosomatidae	2	33.3
			Hydropsychidae	13	216.7
			Hydroptilidae	3	50.0
			Lepidostomatidae	1	16.7
			Rhyacophilidae	4	66.7
			Uenoidae	2	33.3
			Total	447	7,450.1

**Metrics**

Name	Liz-01	Predicted Group Reference Mean $\pm$ SD
<b>Bray-Curtis Distance</b>	0.76	0.4 $\pm$ 0.2
<b>Number Of Individuals</b>		
<b>% Chironomidae</b>	3.1	6.9 $\pm$ 11.3
<b>% EPT Individuals</b>	72.9	83.1 $\pm$ 12.6
<b>% of 2 dominant taxa</b>	55.4	53.1 $\pm$ 12.3
<b>Total Abundance</b>	7450.0	4956.1 $\pm$ 4202.8
<b>Richness</b>		
<b>Total No. of Taxa</b>	26.0	20.0 $\pm$ 4.2

**Habitat Description**

Variable	Liz-01	Predicted Group Reference Mean $\pm$ SD
<b>Channel</b>		
<b>Depth-Avg (cm)</b>	11.8	22.5 $\pm$ 10.5
<b>Velocity-Avg (m/s)</b>	0.35	0.50 $\pm$ 0.25
<b>Landcover</b>		
<b>Substrate Data</b>		
<b>%Boulder (%)</b>	10	6 $\pm$ 7
<b>%Cobble (%)</b>	59	61 $\pm$ 27
<b>%Gravel (%)</b>	6	1 $\pm$ 2
<b>%Pebble (%)</b>	23	31 $\pm$ 28
<b>%Sand (%)</b>	2	0 $\pm$ 0
<b>%Silt+Clay (%)</b>	0	0 $\pm$ 1
<b>Topography</b>		
<b>Water Chemistry</b>		